AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in this

application:

Listing of Claims:

Claim 1 (Currently Amended): A multistage Stirling engine comprising: a plurality of

cylinders each internally holding a working fluid and provided with a displacer piston and a

power piston disposed in series and fitted in the cylinder; a plurality of heaters respectively

combined with the cylinders to heat the working fluid contained in the plurality of cylinders and

using a high-temperature heating fluid provided by a heat source; and a heating fluid passage for

passing the heating fluid sequentially through the heaters;

wherein the plurality of cylinders include adjacent cylinders disposed in parallel

arrangement; and

wherein a plurality of heat exchangers are provided which comprises the comprise

respectively said plurality of heaters, a plurality of coolers for cooling the working fluid within

the plurality of cylinders, and a plurality of regenerators each interposed between an associated

heater being one of the plurality of heaters and an associated cooler being one of the plurality of

coolers; each of the plurality of heaters is connected to one end of each of the plurality of

cylinders; each of the plurality of coolers is connected to the other end of each of the plurality of

cylinders; [[and]] the plurality of heat exchangers are each in the form of a stack of each heater,

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each regenerator and each cooler; and two of the heat exchangers forming adjacent stacks are

interposed closely between adjacent [[ones]] two cylinders of the plurality of cylinders to form

an integral structure having a shape of a flat rectangular solid including the adjacent cylinders

and the heat exchangers.

Claim 2 (Original): The multistage Stirling engine according to claim 1, further

comprising: output shafts connected to the displacer pistons and the power pistons fitted in the

plurality of cylinders, a generator connected to the output shaft, and a case sealing the output

shaft and the generator therein.

Claim 3 (Original): The multistage Stirling engine according to claim 2, wherein the

multistage Stirling engine has an engine case and said case for sealing the output shaft and the

generator is a part of the engine case.

Claim 4 (Currently Amended): The multistage Stirling engine according to claim 1,

wherein the heating fluid is an exhaust gas discharged from an internal combustion engine, and

said heating fluid passage includes passages include an upstream exhaust pipe extending on

opposite sides of one of the cylinders and connected to opposite side parts of a heater combined

with a same cylinder.

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Claim 5 (Currently Amended): The multistage Stirling engine according to claim 1,

wherein said heating fluid passage includes passages include a downstream exhaust pipe for

carrying the exhaust gas after the exhaust gas has exchanged heat with the working fluid in one

of the heaters, and the lower downstream exhaust pipe extends on opposite sides of a cylinder

adjacent to said one of the heaters and is connected to an exhaust manifold another cylinder of

the cylinders.

Claim 6 (Canceled)

Claim 7 (Original): The multistage Stirling engine according to claim 2, wherein the

output shafts connected to the respective displacer pistons and power pistons of the plurality of

cylinders are aligned, and the generator is installed in alignment with the axes of the output

shafts.

Claim 8 (Original): The multistage Stirling engine according to claim 1, wherein the

plurality of heat exchangers are united in a unit.

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